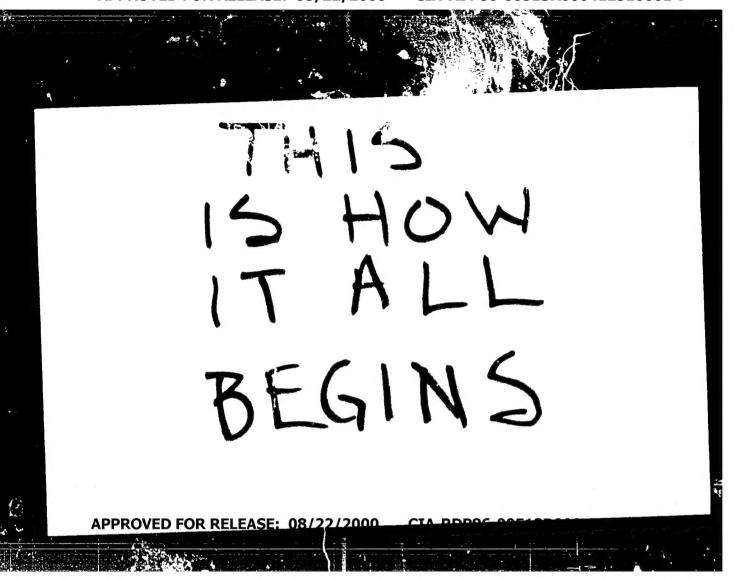
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REEL NUMBER 125 FROM FASTOVA, K.N.

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ACCESSION NR: AT3001862 S/2909/62/000/006/C082/0093

AUTHORS: Voinov, A.I.; Fastova, K.N.; Zaytsev, V.A.; Chernov, N.P.

TITLE: Investigation of the effect of antidetonation additives on the processes that precede detonation in an engine

SOURCE: AN SSSR, Institut dvigateley. Trudy, no. 6, 1962, 82-93

TOPIC TAGS: detonation, knock, antidetonation, antiknock, Fe, Cu, pentacarbonyl, dicyclopentadiene, dicyclopentadienyl, pre-ignition, self-ignition, cold flame, mixture, rich, lean

ABSTRACT: This paper describes an experimental investigation of the effects of various metal-organic antidetonation (antiknock) additives on the various stages of the pre-combustion process in an engine intended to determine the distinctive characteristics of the mechanism of their action. The test equipment and methodology are described, and the processing and evaluation of the test data are detailed. It is established that, for any given level of antiknock effectiveness, the various metal-organic compounds tested affect the other stages of the pre-combustion reaction differently. (a) Tetraethyl (TE) and "ferrocene" or iron dicyclopentadienyl (FC) do not exert any noticeable effect on the inception of the cold-flame

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ACCESSION: NR: AT3001862

oxidation and, basically, act only on the development of the second stage of the pre-combustion process by shifting the boundary of the self-ignition of the hot combustion toward the side of higher temperatures and pressures. (b) Iron pentacarbonyl [(FeCO₅) (hereinafter: IP)] and [(C₈H₁₆)₅Fe(CO₅)] 3 (hereinafter: HP) inhibit sharply the initial stages of the pre-combustion reaction, shift the boundary of the formation of the cold flame toward higher temperatures and pressures, and reduce it in size so that in rich mixtures there is no region of coldflame oxidation at all. The entire character of the pre-combustion oxidation is altered: The hot-explosion region is shifted toward higher pressures and tempertures, with the minimums appearing in the temperature range of 760 to 8000K. (2) C10H16N2O2Cu (hereinafter: III) appears to be comewhat intermediate between TE and IP, namely, it delays the beginning of the cold-flame oxidation, but to a smaller degree than IP, and gives the hot-detonation boundary a form that is similar to that afforded by IP (with a pressure minimum for rich mixtures); however, the detonation boundary lies much lower than with IP and, for lean mixtures, it may even be lower than for pure gasoline. Enrichment of the mixture with IP leaves the detonation boundary virtually unchanged, whereas with pure gasoline and all other additives it is displaced toward lower pressures. The peculiarities of a metal-organic antiknock additive are not determined by the presence in it of a specific metal. TE and FC contain different metals, but act almost identically on

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ACCESSION NR: AT3001862

the pre-ignition processes, whereas FC and carbonyl products of Fe (IP and IP) act distinctly differently. It is concluded that the self-ignition tendency of a fuel-air mixture not only is not identical with its tendency toward detonation, but is not even single-valuedly related to it. Orig. art. has 6 figures.

ASSOCIATION: none

SUBMITTED: 00

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11Apr63

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SUB CODE:

CH, PR, PH

NO REF SOV:

005

OTHER: 002

Card 3/3

FASTOVETS, F.N.

AID P - 721

Subject

USSR/Electricity

Card 1/1

Pub. 29 - 14/26

Author

Fastovets, F. N., Eng.

Title

A convenient placing of controlling push buttons

Periodical

Energetik, 9, 19-20, S 1954

Abstract

The author briefly describes cases in which the accumulation of conducting dust causes self-switching of electric

motors. He submits for discussion methods of eliminating

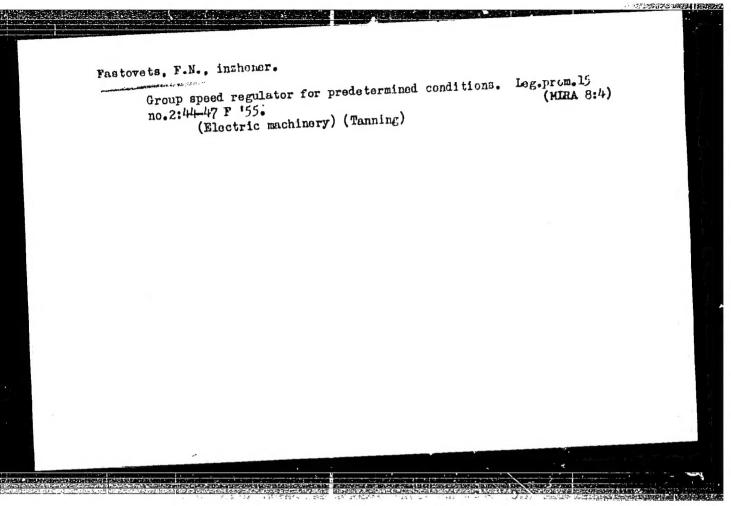
this possibility.

Institution:

None

Submitted : No date

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FASTOVETS, L. D.:

"Anatomical principles for isometry and anisometry."

Dnepropetrovsk State Medical Inst.

1956. (DISSERTATION: FOR THE DECREE OF DOCTOR IN

MEDICAL SCIENCE).

Knizhnaya letopis
No. 15, 1956. Moscow.

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Effect of fertilizers on the yield and oil content of sunflower seeds. Agrobiologia no.6: 849-853 N-D '61. (MIRA 15:2)

1. Vsessoyuznyy selektsionno-geneticheskiy institut, Gdessa. (Sunflower seed)

KHRIPIN, A.G., inzh.; BRAGINSKIY, M.A., inzh.; FASTOYETS, O.S., inzh.;
KARMIKHIN, G.G., inzh.; TERESHCHENKO, F.P., inzh.; LIVYY, G.V.,
kand.tekhn.nauk

Drying of chrome leather under dynamic conditions. Izv.vys.
ucheb.zav.; tekh.leg.prom. no.6:67-76 '59.

(MIRA 13:5)

1. Ukrainskiy nauchno-issledovatel'skiy institut kozhevennoobuvnoy promyshlennosti (for Khripin, Breginskiy, Fantovets,
Livyy, Karpukhin). 2. Kiyevskiy kozhevennyy kombinat (for
Toreshchenko).

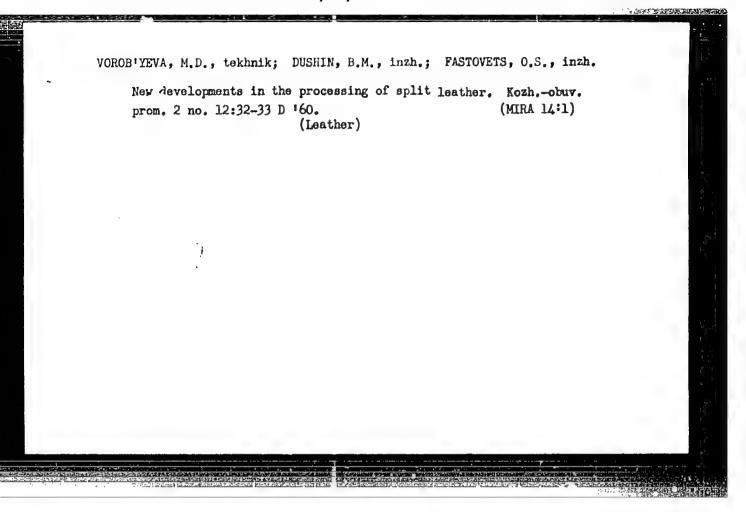
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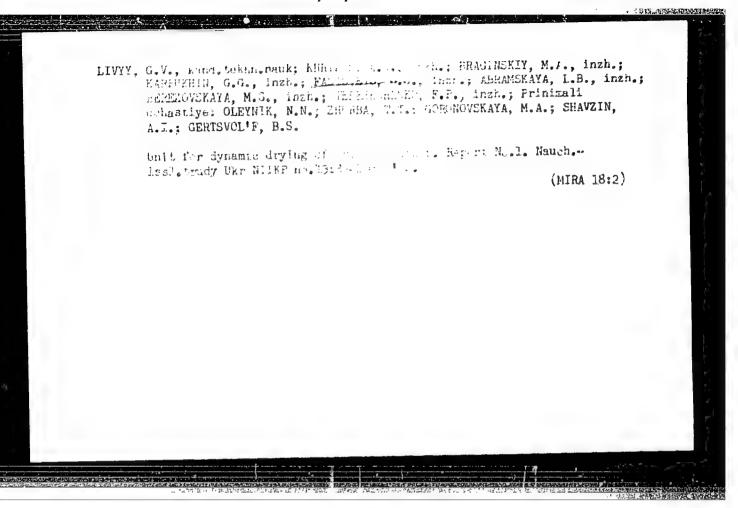
KHRIPIN, A.G., inzh.; BRAGINSKIY, M.A., inzh.; FASTOVETS, O.S., inzh.;
KARPURHIM, G.G., inzh.; TERESHCHENKO, F.F., inzh.; LIVIY, G.V., kand.
tekhn, nauk.

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[zv. vys.ucheb.zav.; tekh.leg.prom. no.2:62-70 '60.
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Karpukhin). 2. Kiyevskiy kozhevennyy kombinat (for Tereshchenko).
3. Ukrainskiy nauchno-issledovatel'skiy institut kozhevennoy
promyshlennosti (for Livyy).

(Leather--Drying)

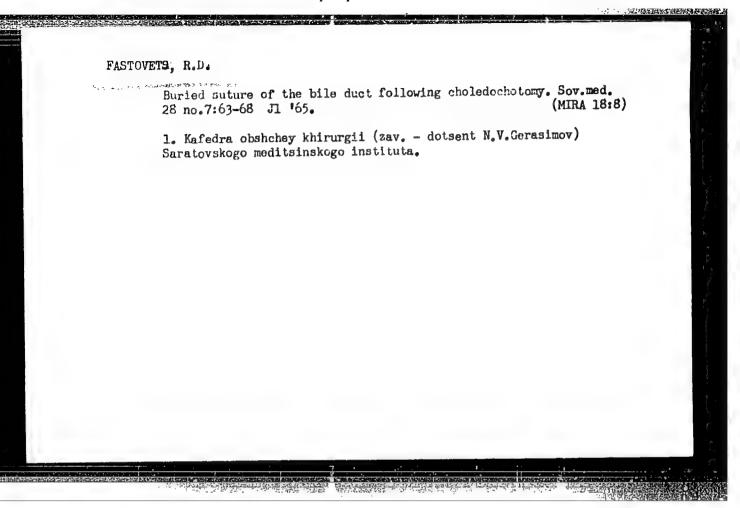




LIVYY, G.V., kand. tekhn. nauk; KAZARINA, N.N., inzh.; GIL'MAJ, E.A., inzh.; FASTOVETS, O.S., inzh.; MOROZYUK, N.I., inzh.; LITVINOV, Sh.I., inzh.; SAGAYDACHNYY, V.G., inzh.; BALAYFV, Yn.V., inzh.; FITSA, A.S., inzh.

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Dissertations presented for science and engineering degrees in Moscow during 1951.

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An account of a meeting at istkhabed on 17-70 Nov 52, attended by \$5594 persons. The following subjects were discussed malaria, dysentery, V.D. Timakov, the effects of a hot offerte, the danger of the introduction of spread of papatacei free fever at the site of construction (2011, P.J. Petrism neva), the advisability and possible dange a of carrying of the complication requirements against being discuss, measures for the complete of of off (1992, ixodes them an flows, etc.

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- 1. FASTCVSKAYA, E. I.
- 2. USSR (600)
- ξ_{μ} Main Turksen Canal Region Malarial Fever
- 7. Role of the medical service personnel in the control of malaria on the Main Turkmen Canal, Fel'd. i akush., no. 4, 1953. (1. 4 g)

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl

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Seeking methods for radical chemical prevention and cure without recurrence of tertian malaria with short and long incubation periods. Report no.6: Results of an investigation of tolerance to the new antimalarial drug quinocid, Med. paraz. i paraz. bol. 24 no.2: 147-154 Ap-Je '55. (MLRA 8:10)

1. Iz sektora eksperimental'noy parazitologii Instituta malyarii meditsinskoy parazitologii i gel'mintologii Ministerstva zdravookhraneniva SSSR (dir. instituta-Prof. P.G.Serpiyov, zav.sektorom prof. V.P.Pod"yapol'skeya) i Stalimabadskoy gorodskoy sanitrano-epidemiologicheskoy stantsii (glavnyy vrach stantsii Kh.V.Vakhidov)

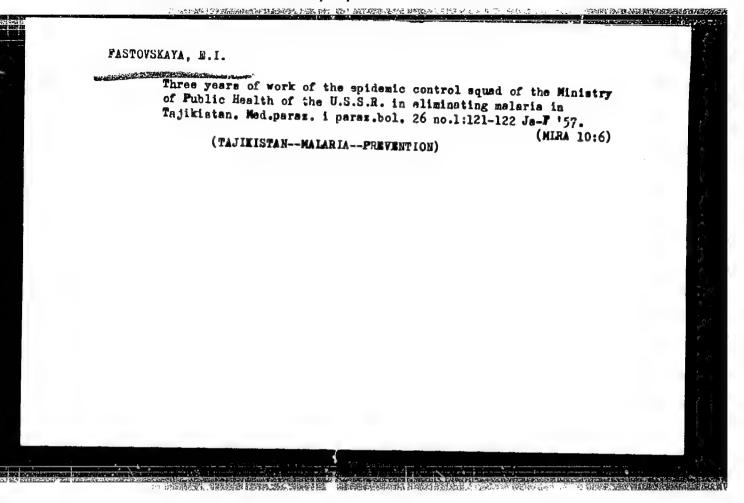
(QUINOLINES, effects, aminoquinoline deriv.tolerance)

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(ANT IMAIARIAIS, therapeutic use, quinocide in tertian malaria (Rus))



FASTCYSKAYA, E.I.; L'VOV, D.K.; LOPATIN, A.N.

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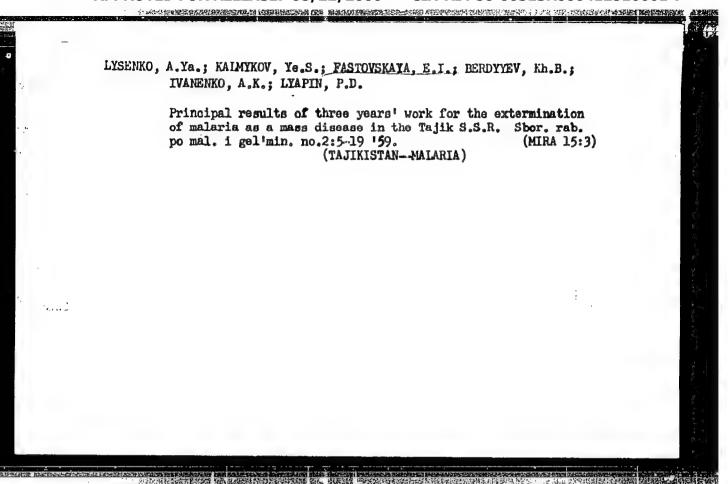
l. Iz otdeleniya spidemiologii i organizatsii bor'by s malyariyey i drugimi parazitarnymi sabolevaniyami Instituta melyarii meditsinskoy parazitologii i gel'mintologii Ministerstva sdravookhraneniya SSSR (dir. instituta - prof. P.G.Sergiyev, sav. otdeleniyem M.G.Rashina) (ENCEPHALITIS, epidemiology tick-borne encephalitis in construction zone, statist. (Rus))

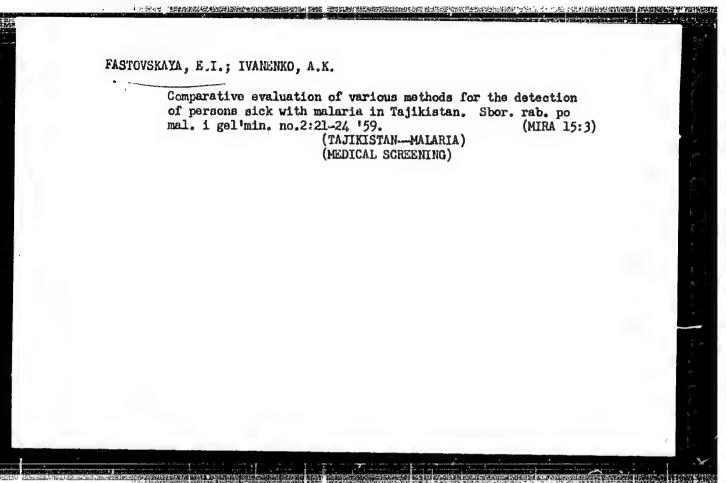
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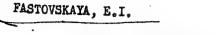
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report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.





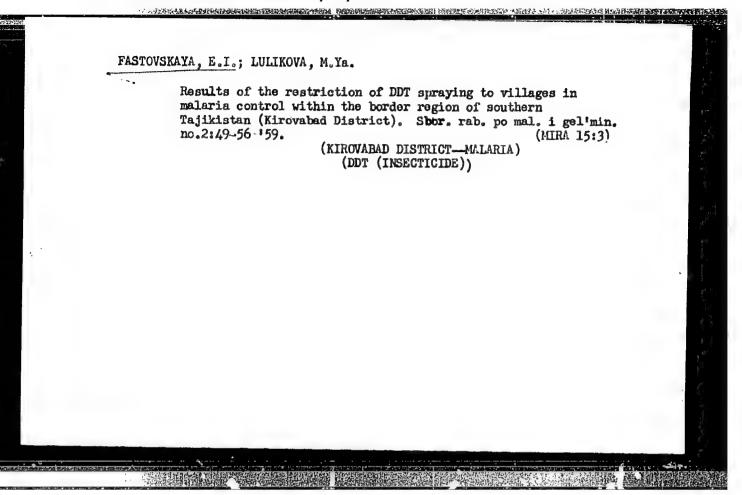
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Results of three years work in clearing up malaria centers in the mountain-river zone of the Gissar Range Region.

Sbor. rab. po mal. i gel'min. no.2:25-31 '59. (MIRA 15:3) (GISSAR RANGE REGION—MALARIA)

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BABENKO, L.V.; BUYANOVA, O.F.; KELLINA, O.I.; LEYKINA, Ye.S.; RAZUMOVA, Ye.P.; PASTOVSKAYA, B.I.; CHALAYA, L.Ye.; SHIPITSINA, N.K.

> All-Union Conference on the Control of Parasitic Diseases. All-Union Conference on the Control of Agrae 444 Hed.paraz. 1 paraz.bol. 28 no.3:364-373 My-Je 159. (MIRA 12:9)

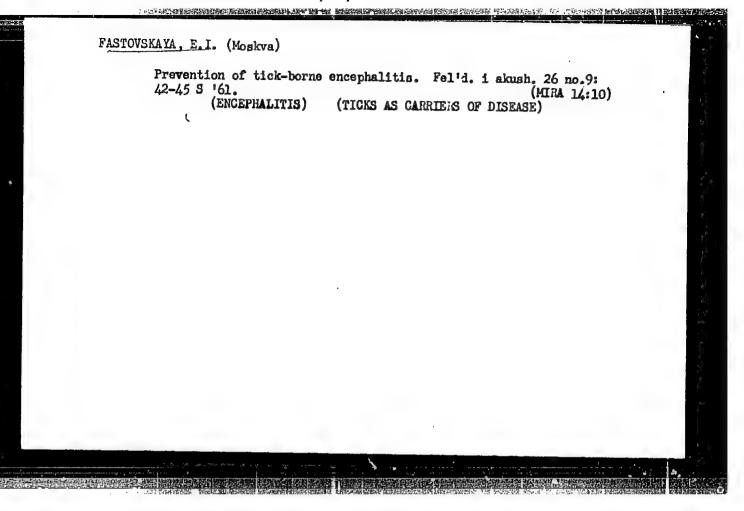
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1. Iz otdela epidemiologii Instituta meditsinskoy parazitologii i tropicheskoy moditsiny imeni Ye. I. Martsinovskogo Ministerstva zdravookhraneniya SSSR (dir. - instituta - prof. P. G. Sersiyev, zav. otdelom M. G. Rashina)

(ENCEPHALITIS)



PASTOVSKAYA, E.I.; NIKIFOROV, L.P.; NAUMOV, R.L.

Influence of the terrain on tick-borne encephalitis morbidity in Krasnoyarsk Territory. Med. paraz. i paraz. bol. 32 no.3: 280-283 My-Je*63 (MIRA 17:2)

l. Iz epidemiologicheskogo otdela (zav. - prof. N.N. Dukhanina) i entomologicheskogo otdela (ispolnyayushchiy obyazannosti za-veduyushchego - prof. V.P. Derbeneva-Ukhova) Instituta meditsin-skoy parazitologii i tropicheskoy meditsiny imeni Ye.I. Martsinov-skogo (dir. - prof. P.G. Sergiyev) Ministerstva zdravookhrane-niya SSSR.

BULANZHE, I.N., kard.khimicheskikh nauk,dotsent; PRININALA UCHASTIYE: Fastovskeya;

Studying the properties of phosphate and sulfide films obtained with the method of cold parkerizing and sulfidization of the surfaces of steel parts. Izv.vys.ucheb.zav.; tekh.leg.prom. no.1: 127-133 '62. (MIRA 15:2)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti. Rekomendovana kafedroy obshchey i analiticheskoy khimii. (Protective coatings—Testing)

DUBOVYY, Ye. D., prof.; OKS, A. A., prof; BUCHINSKAYA, M. P.; VOROWENKO, T. V.; DEMIDAS, V. V.; FASTOVSKAYA, R. M. (Odessa)

Treatment of thyrotoxicosis with radioactive iodine. Probl. endok. i gorm. no.6:50-56 '61. (MIRA 14:12)

1. Iz kafedry rentgenologii i radiologii (zav. - prof. Ye. D. Dubovyy) i kafedry fakul'tetskoy u gospital'noy terapii (zav. - prof. A. A. Oks) Odesskogo meditsinskogo instituta (dir. - zasluzhennyy deyatel' nauki prof. I. Ya. Deyneka)

(IODINE_ISOTOPES) (THYROID GLAND_DISEASES)

(MIRA 18:7)

SKVORTSOVA, L.I.; KRAKHMAL'NIKOVA, G.Kh.; FASTOVSKAYA, R.M. Shereshevskii's syndrome observed in patients with toxoplasmosis. Probl. endok. i gorm. 10 no.6:60-61 N-D 164.

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1. Kafedra infektsionnykh bolezney (zav. - prof. L.K.Korovitskiy). kafedra akusherstva i ginekologii lechebnogo fakul'teta (zav. prof. A.I.Malinin), kafedra gospital'noy terapii pediatricheskogo i stomatologicheskogo fakulitetov (zav. - prof. A.A.Ors) Odesskogo meditsinskogo instituta imeni Pirogova i l-ya Odesskaya gorodskaya infektsionnaya bol'nitsa (glavnyy vrach L.T. Zhidovlenko).

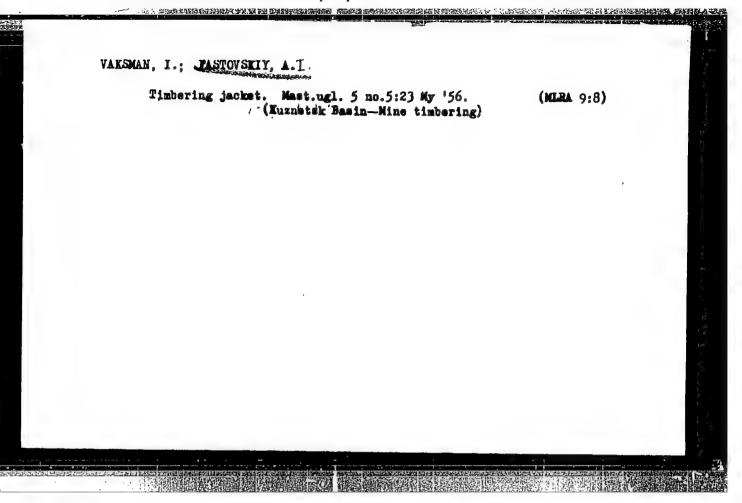
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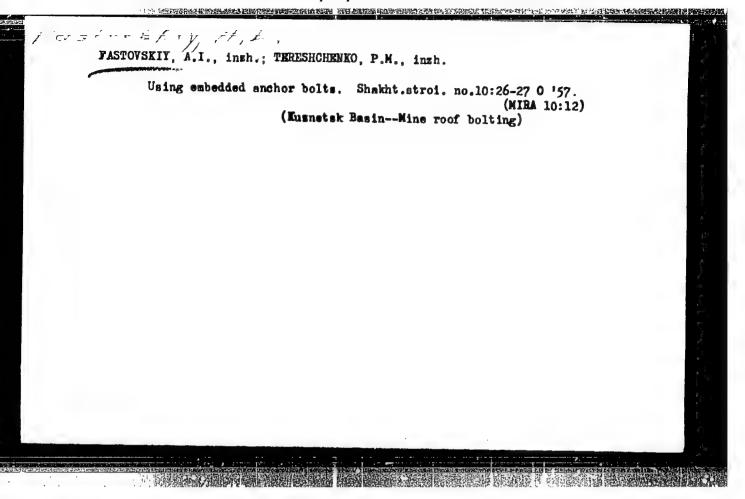
NIKIFOROV, L.P.; FASTOVSKAYA, Y.I.; LVOV, D.K.; BEKIEMISHEV, V.N. [deceased]

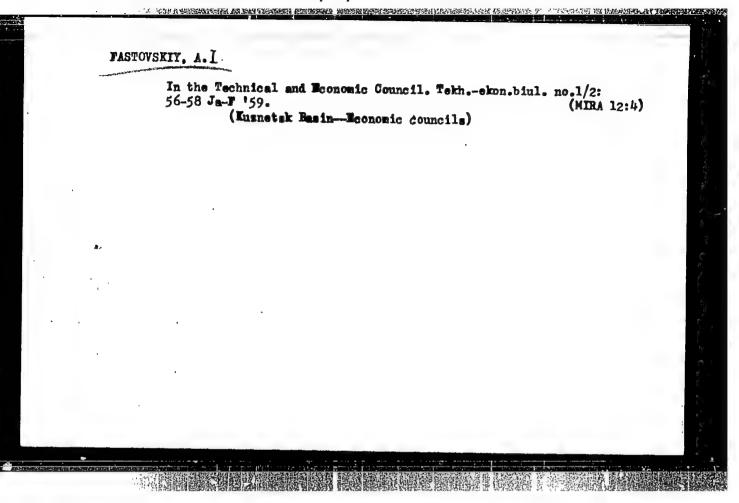
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Quantitative indicators in the epizootology and epidemiology of tick-borne encephalitis. J. Lyg. epidem. (Preha) 8 no.2:221-228 164.

1. Martsinovsky Institute of Medical Parasitology and Tropical Medicine, Ministry of Health of the U.S.S.R., Moscow.

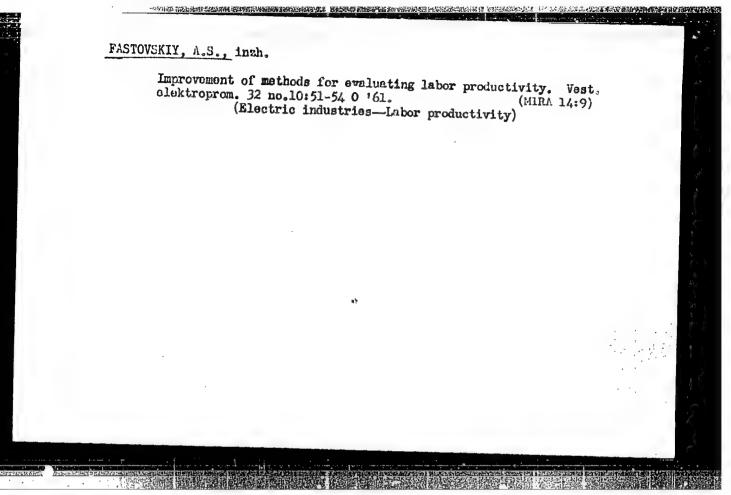


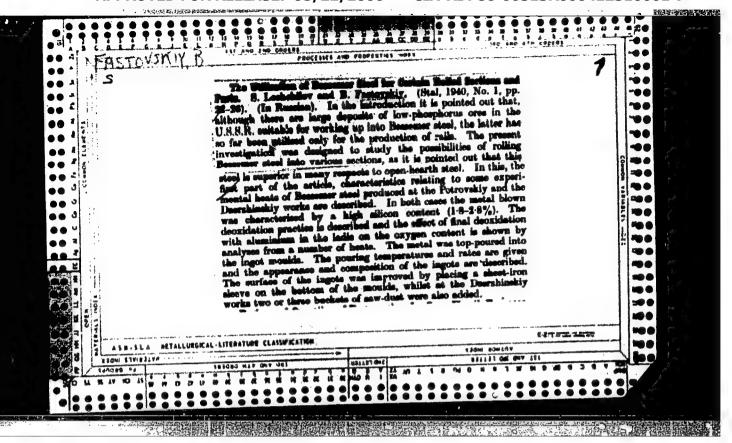


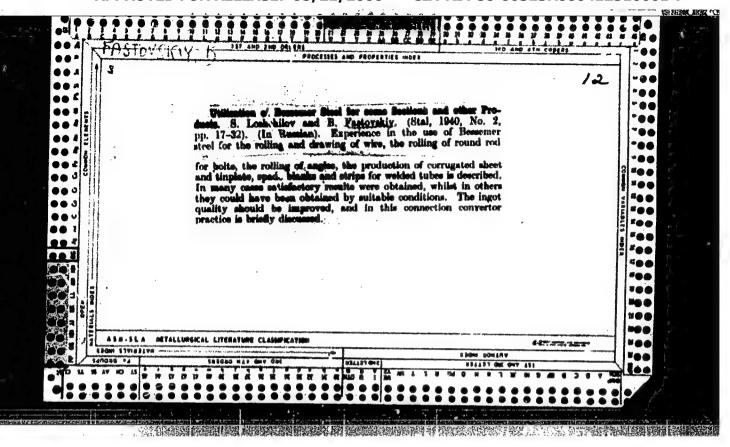


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PASTOVSKII, B.G., kandidat tekhnicheskikh nauk.

**Resmenical relied shapes for industry and constructions. Stal* 16 me.3:
224-229 Mr '56.

1.TSentral'myy nauchne-issledsvatel'skiy institut cherney metallurgii.

(Relling (Metalwerk)) (Steel, Structural)

CHIZHIKOV, Yuriy Mikhaylovich, FASTOVSKIL, B.G., red.; GOLYATKINA, A.G., red.izd-va.; BEKKER, O.G., tekhn.red.

[Rolling mill practice] Prokatnoe proizvodstvo. Izd. 2., perer.

i dop. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi
metallurgii, 1958. 612 p.

(Rolling mills)

(Rolling mills)

PANASENEO, Fedor Lavrent'yevich; FASTOVSKIY, B.G., red.; GOHDON, L.M., red.isd-va; ISLEMT'YEVA, P.G., tekhn.red.

[Rolling and heat treatment of thick sheets] Prokatka i termicheskais obrabotka tolstykh listov. Moskva, Gos. usuchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959, 152 p. (MIRA 12:2)

(Rolling (Metalwork)) (Sheet steel--Heat treatment)

FAST	OVSKIY, B.G.	
	the second of the same of the	
	Economical shapes for rolled products. Hetallurg 5 no.2: 23-25 F '60. (MIRA 13:5)	
	1. fSentral'nyy mauchno-issledovatel'skiy institut chernoy metailurgii.	
	(Rolling(Metalwork))	
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PASTOVSKIY, B.G., kand.tekhn.nauk

Specialization of rolling mills. Stal' 21 no. 1:79-81 Ja '61.
(NIRA 14:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.
(Rolling mills)

FASTOVSKIY, B.G.; FUNDE, A.N.

Manufacture and use of economical hot-rolled sections.
Metallurg 7 no.8:19-23 Ag '62. (MIRA 15:9)

FASTOVSKIY, B.G., kand.tekhn.nauk

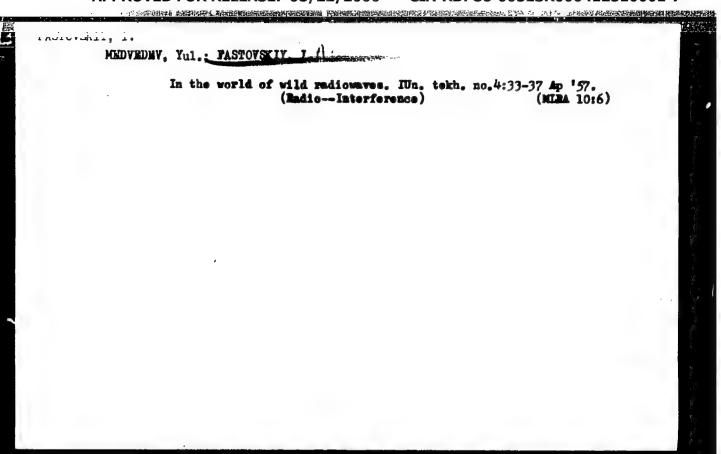
Prospects for the production of hot-rolled economical sections.

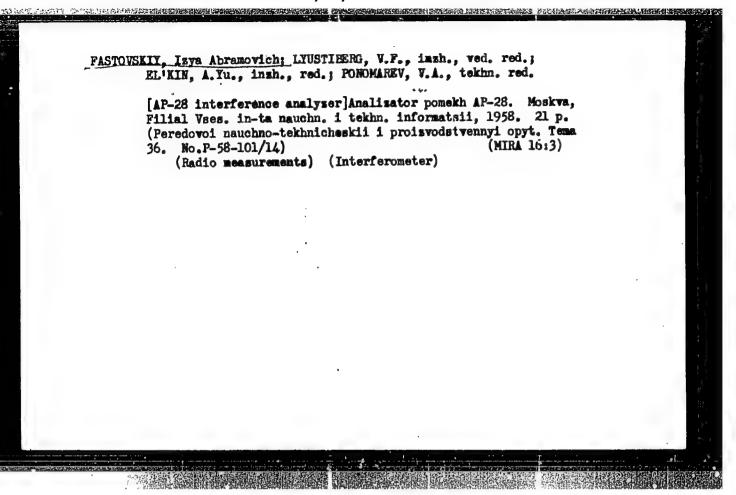
Stal' 23 no.5:435-438 My '63. (MIRA 16:5)

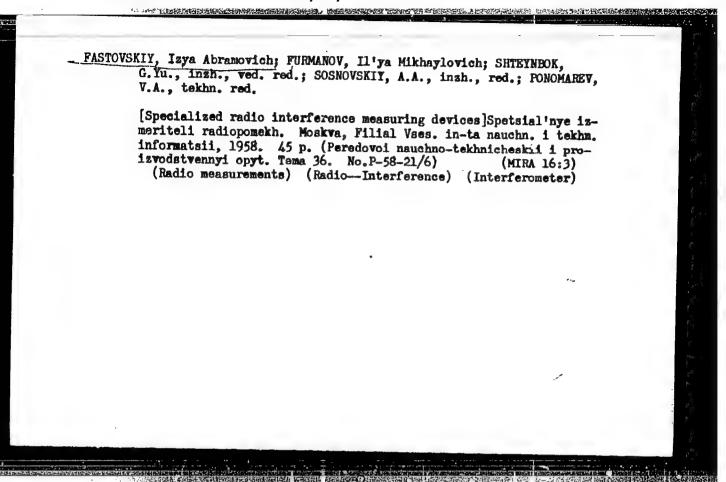
1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.

(Rolling (Metalwork))

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6(4)

PHASE I BOOK EXPLOITATION

SOV/2529

Fastovskiy, Izya Abramovich and Il'ya Mikhaylovich Furmanov

Poisk istochnikov industrial nykh radiopomekh i ikh issledovaniye (Detection and Investigation of Industrial Sources of Radio Interference) Leningrad, Sudpromgiz, 1959. 60 p. 26,200 copies printed.

Resp. Ed.: A. Ye. Vorontsov; Ed.: B. I. Leonova; Tech. Ed.: L. M. Shishkova.

500亿世纪世纪世纪世纪世纪时间的时间,为国际出版的**和的**,而且是经历的时间的一种,但是这种主义的,但是是这个一个一个一个一个一个一个一个一个一个一个一个一个一个

PURPOSE: This booklet is intended for engineers and technicians concerned with industrial radio interference.

COVERAGE: The authors discuss the purpose, fields of application, characteristics and methods of operation of special devices for analyzing radio interferences. They describe a radio interference detector, a television interference meter, special instrument generators, a spectrum analyzer and probability distribution analyzers. No personalities are mentioned. There are 6 references: 5 Soviet and 1 German.

TABLE OF CONTENTS:

Introduction

Card 1/3

	tion and Investigation (Cont.) SOV/2529
1.	Detection of Sources of Radio Interference ISP-24 radio interference detector Methods of detecting sources of radio interference
3. 4.	I. Measurement of Television Interferences Measurement of television interference IP-22T television interference meter Procedure for operating the IP-22T meter
6.	II. Generators for Analysing Radio Interferences Transfer-coefficient measuring instrument and its application IPSh meter for noise-increase measurement and method of operation
8.	Analysis of Radio Interference Spectra IP-20 spectral interferometer Observation and measurement of radio interference spectra
Ch. V.	Analysis of the Nature of Radio Interferences Interference probability distribution
	./3

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PHASE I BOOK EXPLOITATION

SOV/2240

9(6)

Festovskiy, Izya Abramovich and Il'ya Mikhaylovich Furmanov

Tipovyve pribery dlya izmereniya industrial'nykh radiopomekh (Standard Instruments for Measuring Industrial Radio Interferences) Leningrad, Sudpremgiz, 1959. 119 p. 41,200 cepies printed.

Resp. Ed.: A. Ye. Vorontsev; Ed.: D. P. Smirnova; Tech. Ed.: L. M. Shiehkova.

PURPOSE: This booklet is intended for electrical and radio engineers dealing with problems of suppression of radio interferences.

COVERAGE: The authors describe electrical circuits and standard interference meters used for determining the intensity of radio interferences. They discuss basic characteristics of interference-measuring devices. They also explain methods of measuring voltages and interference levels. The also explain methods of measuring voltages and interference levels. The authors also discuss problems of calibration and of checking the accuracy of interference meters used in the frequency range between 0.15 and 1000 mc of interference meters used in the frequency range between 0.15 and 1000 mc and present their characteristics. Devices discussed in this booklet were and present their characteristics. Devices discussed in this booklet were and present their characteristics. Devices discussed in this booklet were developed by TeLIR - Tear, tral nays laboratoriya po bor be a industrial national ferences. (Centra) Leberatory for Combatting Industrial Radio Interferences.

Card 1/3

		i i _e i
Standard Instruments (Cont.)		
507/2240		
3. Measurement of interference voltages at the terminals of		
4. Shielded chambers	48	
5. Errors during measurement of pulse into 6	51	
6. Various measurements made by means of standard interference meters	52	
by means of standard interference meters	53	
Th. III. Interference Simulators and Methods of Checking the Parameters of Interference Meters		
1. Contact interference generator	57	
2. Generator of a constant-density spectrum	57	
	65	
h. IV. Characteristics of Interference Meters		
+• ir-ism interference metam	69	
2. IP-12M and IP-25 interference makes	69	
3. IP-14 and IP-26 interference meters	71	
To it it interference mater	74	
5. IP-21 interference meter	76	
	79	
ble of basic characteristics of standard radio interference meters		
	82	
pendixes	0.4	
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Fastovskiv I.A., Engineer

AUTHOR:

The Method of Measuring and Testing the Basic Parameters

of Noise Meters

PERIODICAL: Vestnik elektropromyshlennosti, 1960, No.10, pp.55-57

TEXT: In meters for measuring radio noise, four parameters are of interest: the charge time τ_z , the discharge time τ_r , the ballistic time constant of the indicator τ_W and the pulse characteristic K(F). The measurement of τ_W is best carried out in the following way. A pulse of amplitude I and duration b is availed to the circuit. The deviation α of the instrument is noter. τ_W may be calculated from the value of $\alpha_{\rm max}$ as given by

$$\alpha_{\text{max}} = 0.354 \frac{\delta}{\tau_{\text{Tf}}} \alpha_{\text{M}}$$
 (1)

The recommended circuit for this measurement (that of Engineer A,G.Yakovlev) is given. τ_Z may be measured by the usual method Card 1/2

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S/110/60/000/010/010/014 E041/E455

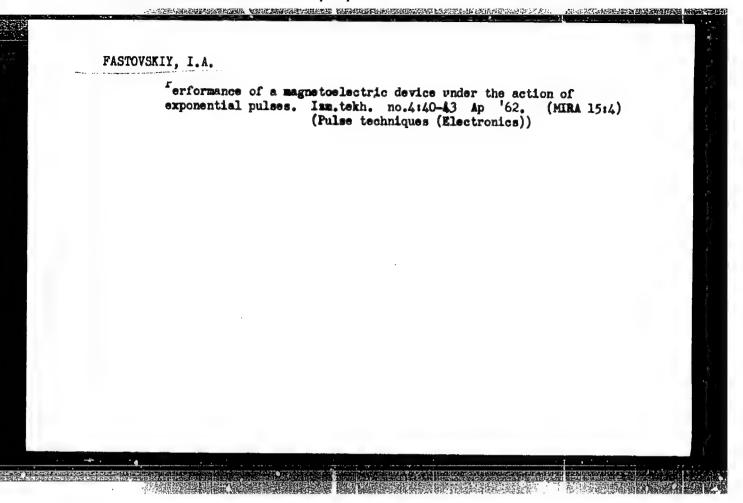
The Method of Measuring and Testing the Basic Parameters of Noise Meters

of evaluating the time required for a function to reach 63.2% of its maximum value; a suitable circuit is given. The same method may also be used for measuring τ_r . The pulse characteristic may be taken by using the conventional arrangement in which a variable pulse repetition frequency is supplied to the meter and its indication noted. There are 6 figures.

SUBMITTED: February 15, 1960

Card 2/2

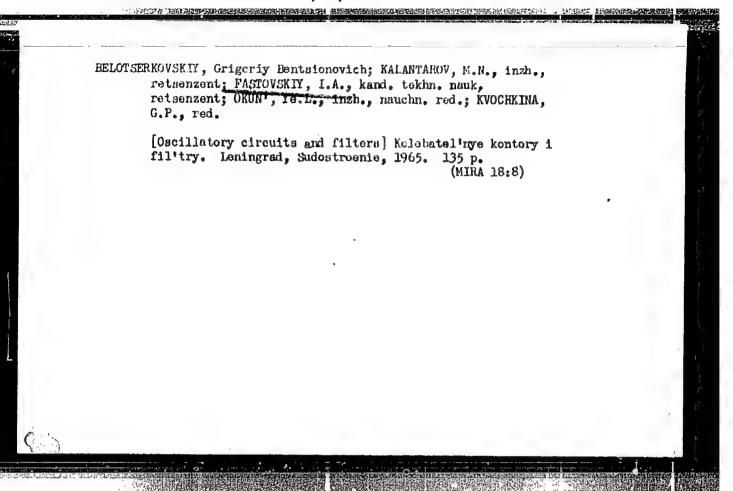
FASTOVSKIY, I.A. Operation of an inertial detector in the presence of impulses with complex shapes. Radiotekhnika 16 no.5:51-59 My '61. (MIRA 14:6) 1. Deystvitel'nyy chlen Nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi. (Radio detectors)

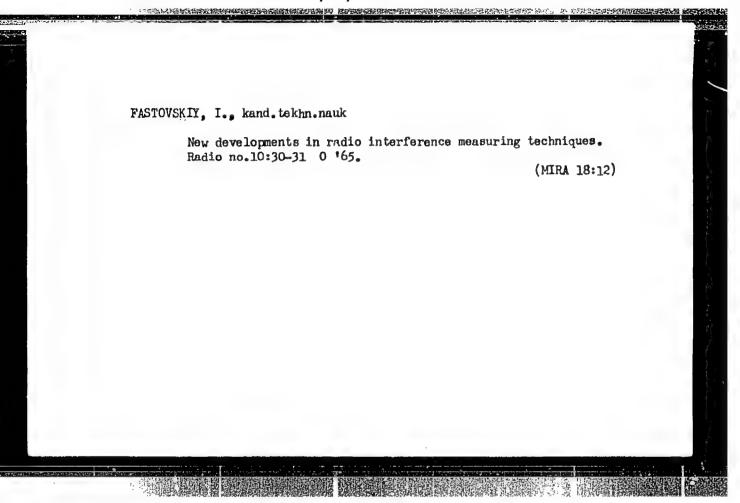


PASTOVSKIY, I.A. An inertial voltmeter subject to the action of a random sequence of impulses, Radiotakinika 18 no.2270-80 F '65, (MIRA 1624) 1. Daystvitel'nyy chlam Euchme-issledovatel'skego obshebestva radiotakiniki i elektrosvymi impin Popova. (Radio measurements)

FASTOVSKIY, Izya Abramovich; KNELLER, I.A., otv. red.; TSEYTLIN, F.G., red.

[Radio interference measuring apparatus] Apparatura dlia izmereniia radiopomekh; informatsionnyi sbornik. Moskva, Sviaz', 1965. 56 p. (MIRA 18:5)





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S/203/62/002/002/013/017 1046/1236

9.6130

AUTHORS: Nalivayko, V.I., Tyurmin, A.V. and Fastovskiy, U.V..

TITLE: Field proton magnetometer TT M-5 (PM-5)

PERIODICAL: Geomagnetizm i aeronomiya, v.2, no. 2, 1962, 343-347

TITLE: The signal/noise ratio on the output of the new two-cycle paraphase amplifying circuit (see diagram) is 25:1 for a noise level that is approximately equal to the signal at the input; the total amplification factor K=40,000; the transmission band $\triangle F_{0,7} = 150$ cycles; wider range can be obtained by simple replacement of capacitors. The total error in measurements for 60,000 γ fields (γ the gyromagnetic ratio of the proton) is $\triangle T/T = 4.08.10^{-3}\%$, or ± 2.5 γ . General principles of the proton magnetometer operation are cited after Packard and Varian (Ref.1: M. Packard, R. Varian. Phys. Rev., 1954, 93, 941). There are 4 figures.

ASSOCIATION: Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR (Institute of the Terrestrial Nagnetism, the Ionosphere and Propagation of Radiowaves AS bJSR)

SUBMITTED:

January 16, 1962

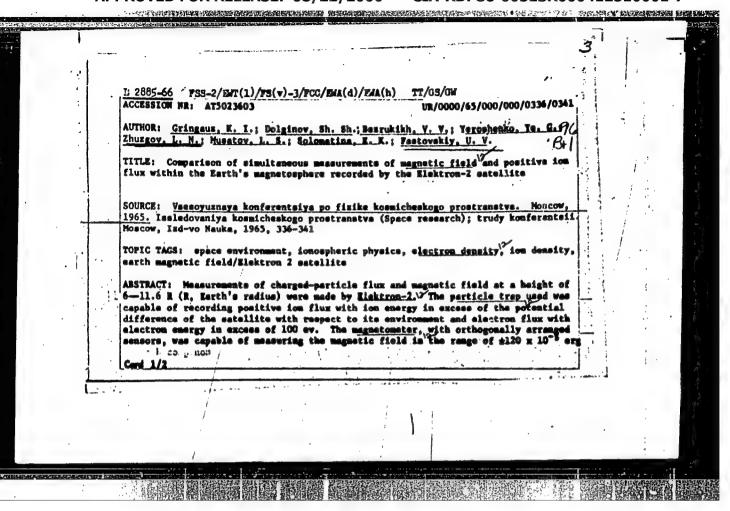
Card 1/1

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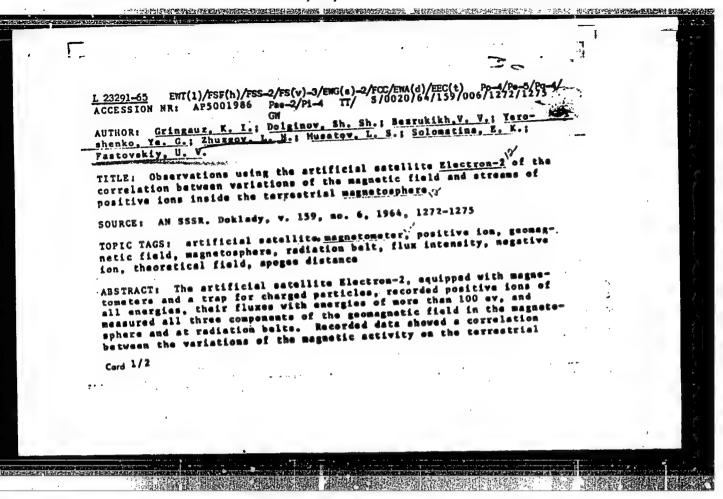
YEROSHENKO, Ye. G.; DOLGINOV, Sh. Sh.; ZHUZGOV, L. N.; FASTYOVSKIY, U. V.; ALEKSANYAN, L. M.

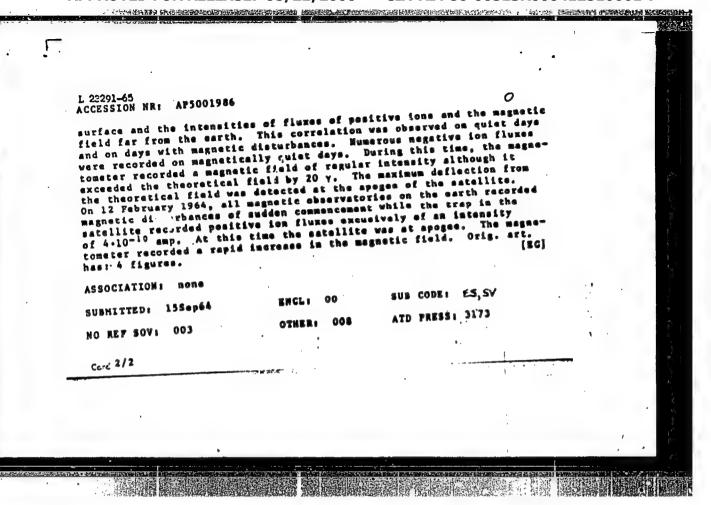
"Magnetic Investigations on the Electron 2 Satellite."

report presented at the 5th Intl Symp on Space Science, Florence, Italy, 12-16 May 64.



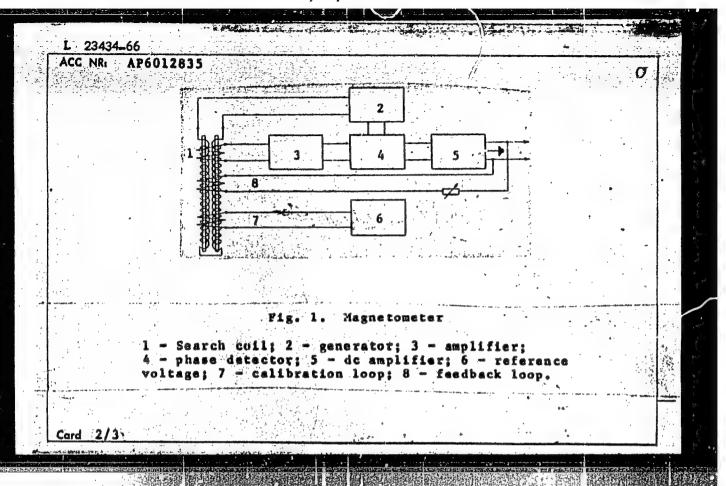
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in each component direction. Its threshold was 2 x 10 urements, when compared with solar activity data is the	r org. The satellite mess-
via ground observatories, show incommistencies in the ation of magnetic activity on the Earth's surface and	correlation between the Vari-
Detic field intensity and charged particle flux as wee	soured by the estellite. It
is uncertain whether those observations can be emplain the magnetosphere or by mear-earth plasma due to charg	ped particles accelerated by a
yet unknown mechanism. Orig. art. has: 6 figures.	[90]
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FSS_2/EWT(1)/FCC TT/GW AP6012835 UR/0293/66/004/002/0302/0310 SOURCE CODE: 44 AUTHOR: Aleksanyan, L. M.; Yeroshenko, Ye. G.; Zhuzgov, L. N.; 38 Fastovskiy. U. V. ORG: none TITLE: Magnatometric apparatus of the Electron-2 space station SOURCE: Kosmicheskiye issledovaniya, v. 4, no. 2, 1966, 302-310 TOPIC TAGS: magnetometer, magnetic field measurement ABSTRACT: Two search-coil magnetometers capable of independently measuring three components of the magnetic field in the outer radiation belt were mounted on Electron-2. One had a measurement frange of *120 y, and the other, a range of *1200 y. A block diagram of the basic magnetometer is shown in the figure. It consists of a 2-kc signal generator with associated low-pass filter for suppressing the second harmonic, a tuned amplifier (voltage gain, 12 x 103, bandwidth at 3 db, *100 cps) tuned to the second harmonic with associated input filter to attenuate the first and third harmonics by 40 db, a synchronous phase: detector, and a d-c current amplifier (gain, 20). Two telemetry channels are utilized for each magnetic-field coordinate, one channel for positive values and the other for negative values. A diode gate



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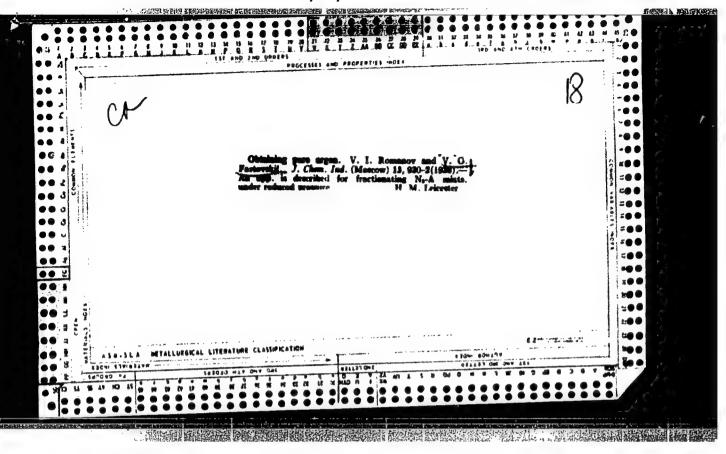
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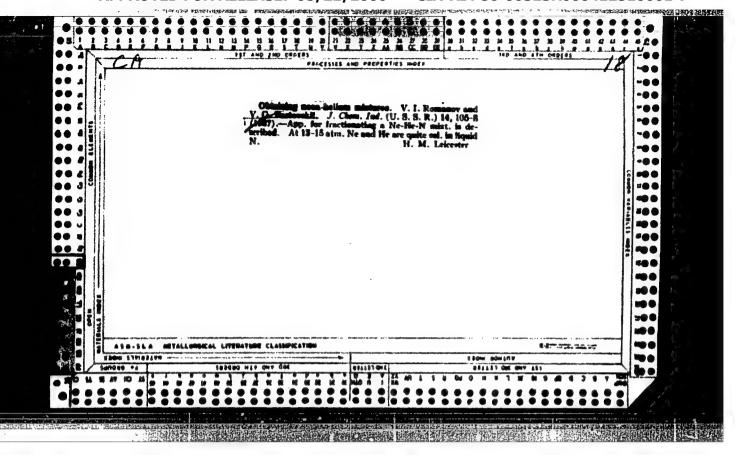
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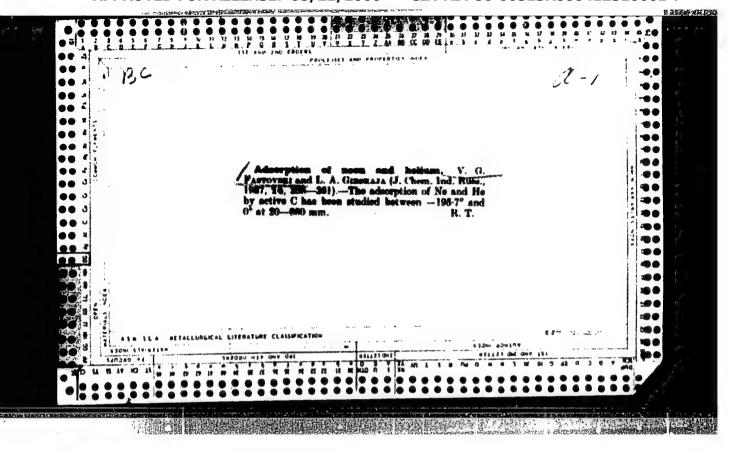
in the d-c amplifier unit diverts the information to the appropriate channel. The inclusion of a heavy voltage feedback confines the magnetometer nonlinearity to 2—3%. The sensitivities of two magnetometers are 2—3 y and 20—30 y; the temperature stability measured at -3C, +18C, and +55C did not exceed 0.2 y/C for the first and 0.7 y/C for the second. A special unit for sensitivity calibration with the use of a reference voltage source is also included. The average error in measuring the scalar magnetic field was *4 y and *40 y. The zero drift did not exceed 2—3 y per day. The 14-v power supply for the magnetometers was stabilized by a P203 transistor and a D811 Zener diode. All other transistors used were the P103 type. Power consumption for each magnetometer was 2.2 w. "In conclusion, the authors are indebted to A. V. Klimovskiy, A. I. Konnov, Ye. Ye. Kanonidi, L. I. Ulanov, V. M. Agafonnikov, and V. G. Ryzhov for their active participation during the manufacturing, calibration, and testing of equipment." Orig. art. has: 1 formula and 4 figures. [BD]

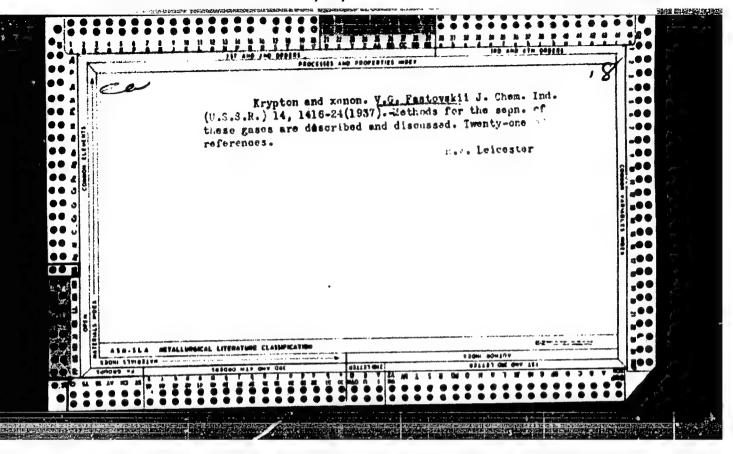
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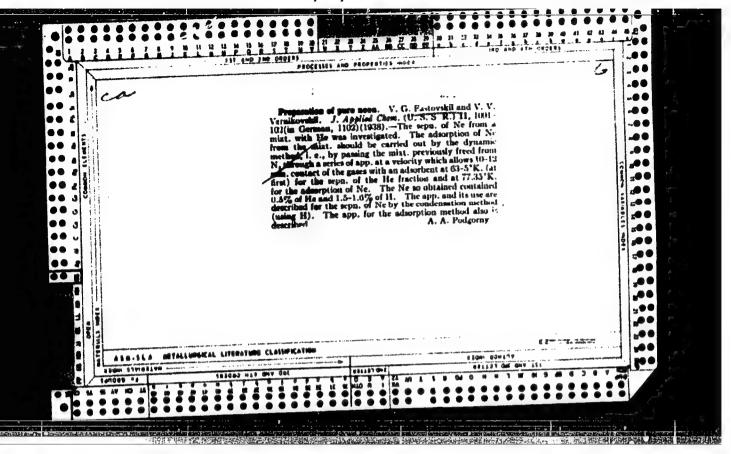
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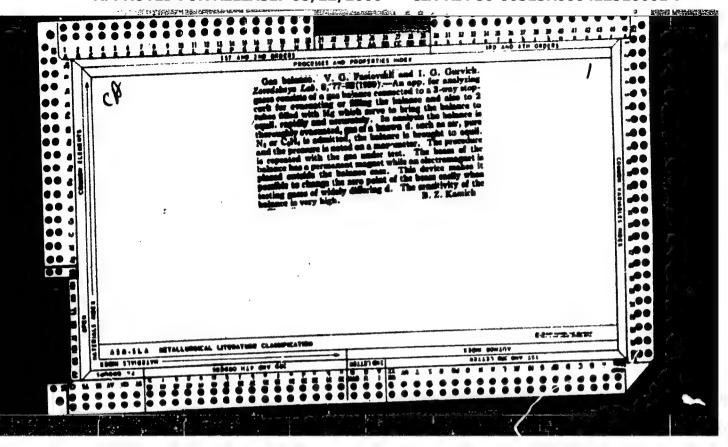






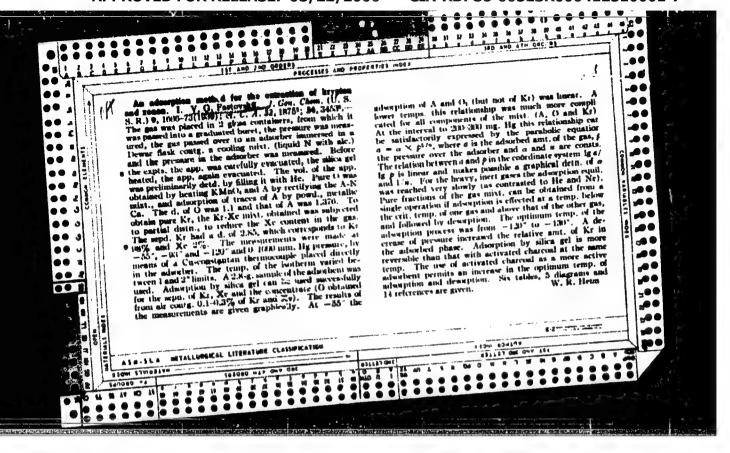


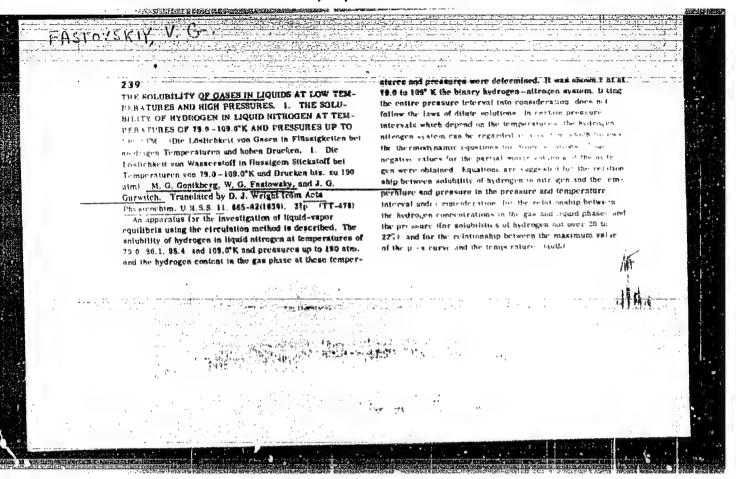


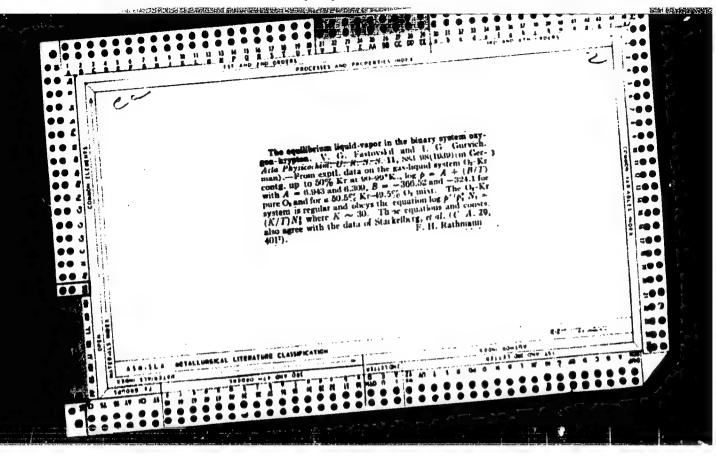


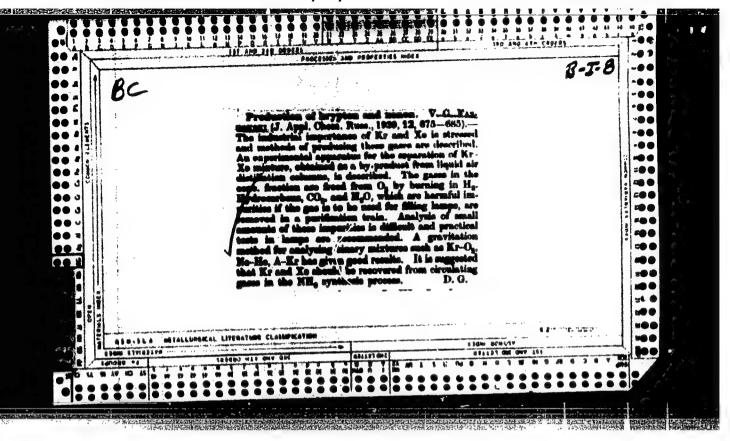
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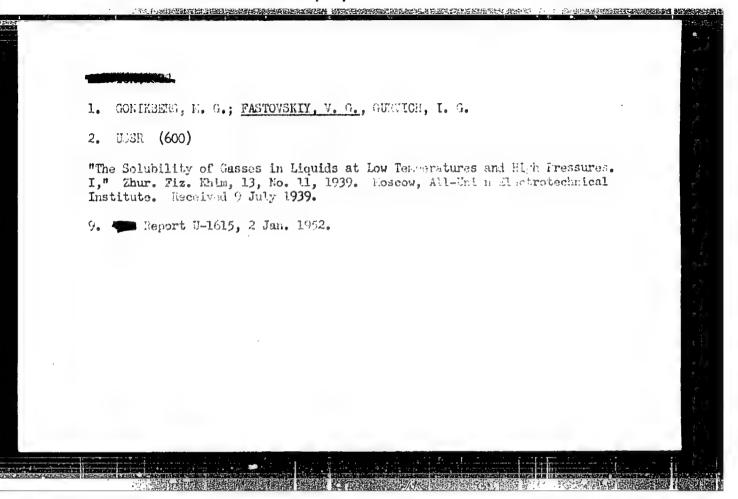
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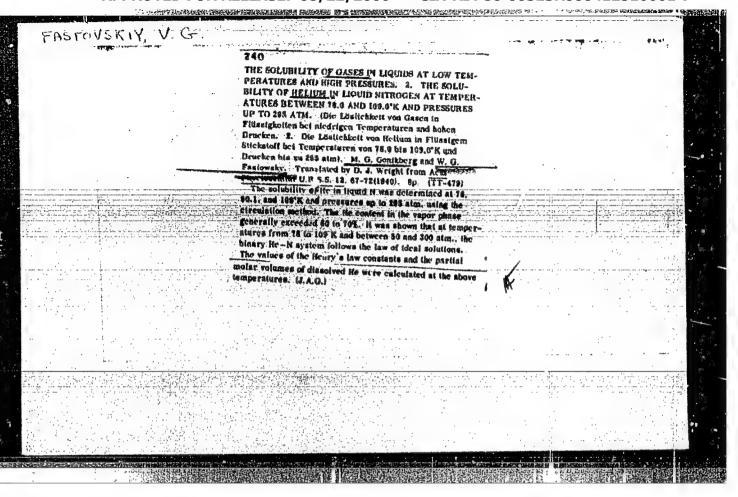
1. FASTOVSKIY, V. G.; GURVICH, I. G.

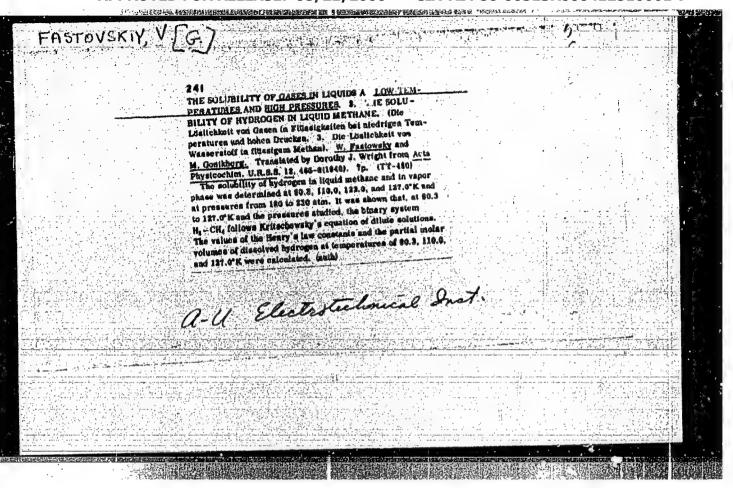
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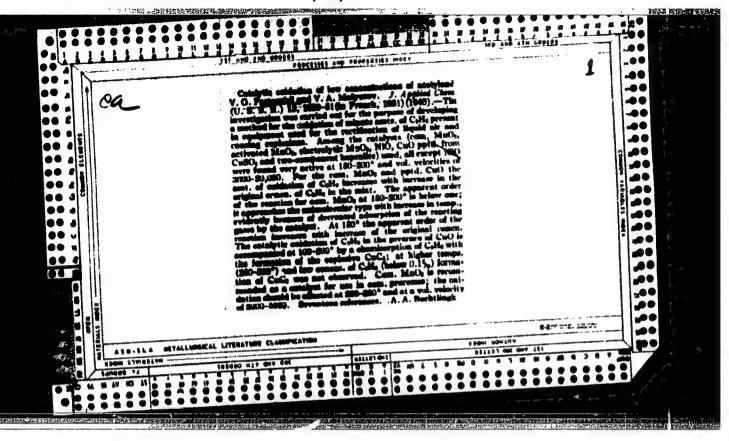
"Research on the Equilibrium of the Liquid-Vapor of the Binary System Daygon"Research on the Equilibrium of the Liquid-Vapor of the Binary System DaygonKrypton," Zhur, Fiz. Khim. 13, No. 11, 1939. Moscow, All-Union Electrotechnical
Krypton," Zhur, Fiz. Khim. 13, No. 11, 1939. Moscow, All-Union Electrotechnical
Inst. Received 9 July 1939.

9. Report U-1615, 3 Jan. 1952

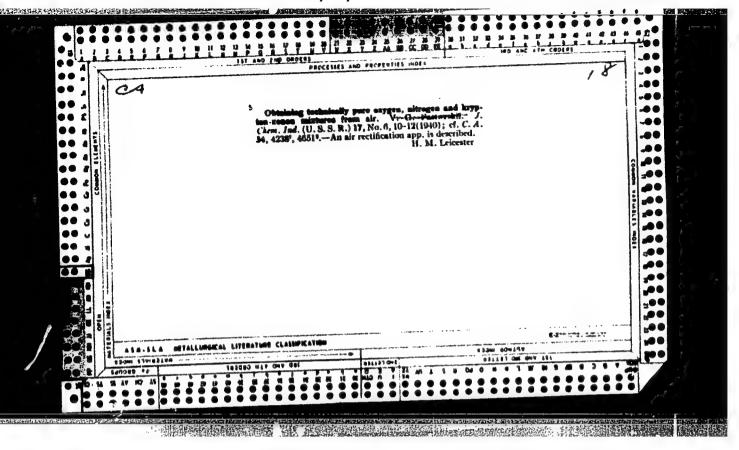








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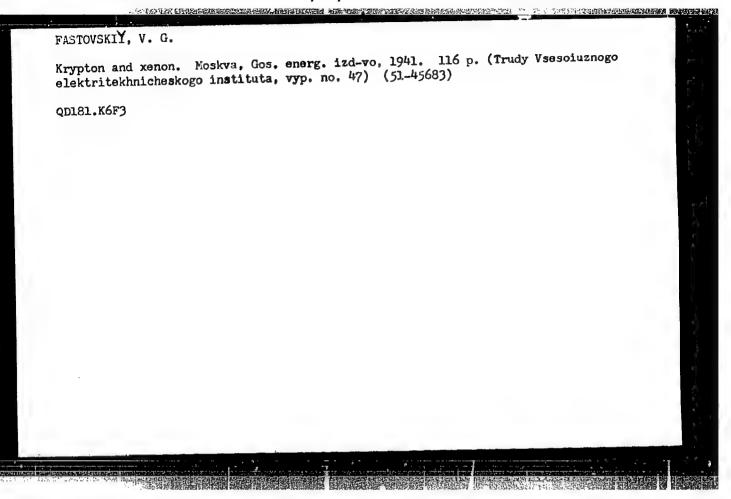
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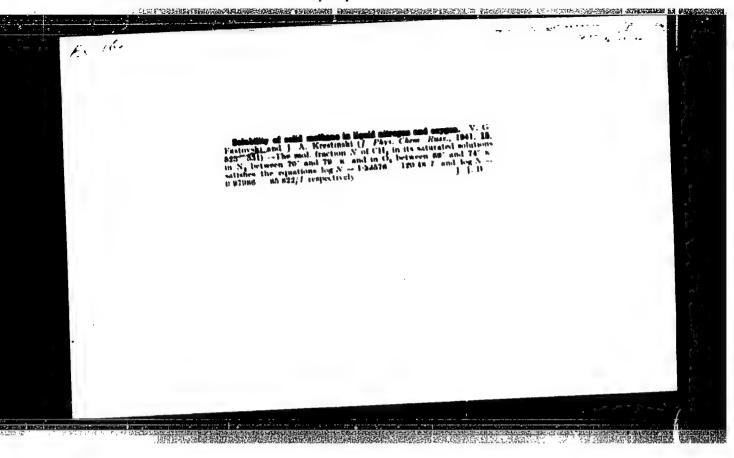
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"The Solubility of Gases in Liquids at Low Tumperatures and High Pressures," Part IV: "The Solubility of Helium in Liquid Methane at 90.3 Degrees K and 106.0 Degrees K and Pressures at to 160 Atmospheres."

Zhur. Fiz. Khim., Vol. 14, No. 8, 1940.

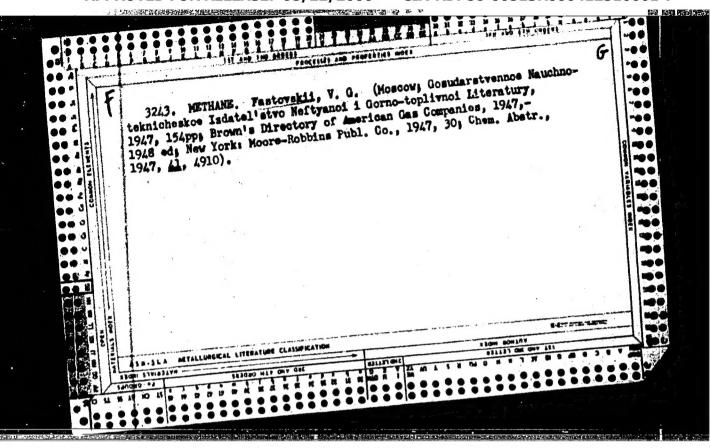


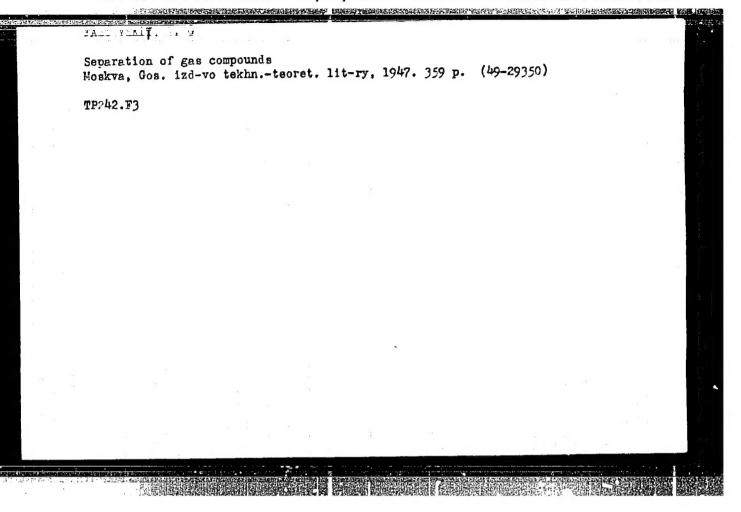


White Solubility of Argon in Liguid Oxygen", Zhur. Fiz. Khim. 16, Nos. 3-h, 19h2.

Moscow, All-daion Electrical Engineering Institute. Received 2h April 19h1.

Report U-1523, 2h Oct. 1951.





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Translation - D 180564, 23 Feb 55